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## APPENDIX A MARKED VERSION OF AMENDED SPECIFICATION PARAGRAPH

Page 16, line 10:

The sampling capillary 528 was used to draw sample materials into channel 508b. This involved application of a negative pressure at reservoir [514] 512 to sip sample materials from sample wells or tubes. After being drawn into channel 508b, the material moved into the detection channel segment 510 at which point it was subject to detection. The material then oved into channel 508a and out toward reservoir 512.

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## APPENDIX B

## MARKED VERSION OF AMENDED CLAIMS

- 16. (Amended) The microfluidic system of claim [0]15, wherein the first and second planes are parallel.
- 17. (Amended) The microfluidic system of claim [0]15, further comprising at least a second channel segment in fluid communication with the detection channel segment.
- 18. (Amended) The microfluidic system of claim [0]15, wherein the second channel segment is disposed to be positioned in a third plane that is different from the first plane.
- 19. (Amended) The microfluidic system of claim [0]15, wherein the first and second channel segments are disposed in a planar body structure, the first and second planes being perpendicular to a plane of the planar body structure and the third plane being parallel to the plane of the body structure.
- 20. (Amended) The microfluidic system of claim [0]15, wherein the planar body structure comprises at least first, second and third substrate layers, wherein the first substrate layer is sandwiched between the second and third substrate layers, the first channel segment being disposed as an aperture through the first substrate layer, and the second channel segment being disposed at the interface of the first and second substrate layers.